

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2002260637  
PUBLICATION DATE : 13-09-02

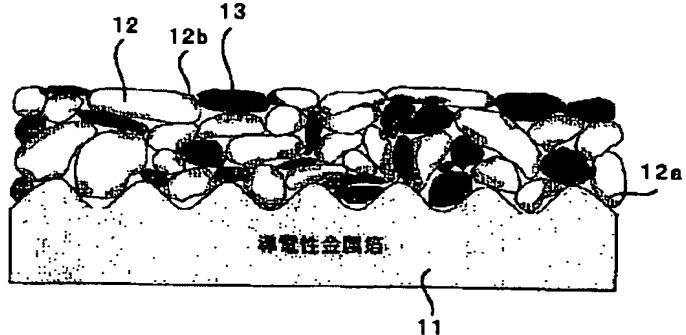
APPLICATION DATE : 24-08-01  
APPLICATION NUMBER : 2001254261

APPLICANT : SANYO ELECTRIC CO LTD;

INVENTOR : FUJITANI SHIN;

INT.CL. : H01M 4/02 C22C 1/04 H01M 4/04  
H01M 4/38 H01M 4/62 H01M 4/66  
H01M 10/40

TITLE : NEGATIVE ELECTRODE FOR LITHIUM  
SECONDARY BATTERY, AND ITS  
MANUFACTURING METHOD



ABSTRACT : PROBLEM TO BE SOLVED: To provide a negative electrode for a lithium secondary battery, capable of providing high discharge capacity and having superior charge-discharge cycle characteristic, and to provide its manufacturing method.

SOLUTION: This negative electrode for a lithium secondary battery and its manufacturing method is characterized, in that conductive metal foil 11 such as copper foil or copper alloy foil having a surface roughness Ra of 0.2 µm or more is used as collector, and the negative electrode is formed by sintering a mixture of active material particles 12 containing silicon and/or silicon alloy with conductive metal powder 13 of copper or copper alloy on the surface of the collector 11, in a non-oxidative atmosphere.

COPYRIGHT: (C)2002,JPO

BEST AVAILABLE COPY